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The Royal Society of London

PHILOSOPHICAL TRANSACTIONS

Volume 17
1693

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JOHNSON REPRINT
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1963

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PHILOSOPHICAL
TRANSACTIONS:

Giving some

ACCOUNT

OF THE

Present *Undertakings, Studies and Labours*

OF THE

INGENIOUS,

In many

Considerable Parts of the WORLD.

VOL. XVII. For the Year 1693.

L O N D O N :

Printed for *S. Smith* and *B. Walford*, Printers to the *Royal Society*, at the *Prince's Arms*, in *St. Paul's Church-yard*. 1694.

To the HONOURABLE
Sir ROBERT SOUTHWELL, Kt.
P R E S I D E N T ;
And to the
Council and Fellows
O F T H E
Royal Society
O F
L O N D O N ,
F O R T H E
Advancement of *Natural Knowledge*,
This Seventeenth Volume
O F T H E
P H I L O S O P H I C A L T R A N S A C T I O N S
Is humbly Dedicated

By Richard Waller, S.R. Secr

I M P R I M A T U R,

Vol. XVII. Philosoph. Transact.

Jan. 31. 1692.

Rob. Southwell,
P. R. S.

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1. **T**HE Preface. 2. *A Paper of the Honourable Robert Boyle, late Fellow of the Royal Society, deposited with the Secretaries of the R. S. A^o. 1680. containing a Method of preparing the Phosphorus of Humane Urine.* 3. *A Solution of the Florentine Problem touching the Figure of a Capola, whose Windows being cut out, the Remainder is Quadrable. By the Reverend John Wallis, S. T. D.* 4. *The Extract of two Letters from Mr. Anth. Leeuwenhoek of Delit about the Testicles of a Rat, and the Animalcules therein contained; with some Observations of Small Animals found in Oyster and in the Sap of Vines.* 5. *Some Observations in the dissection of a Rat, with a Figure of the Genital parts thereof. By Mr. Ric Waller, S. R. Secr.* 5. *An Estimate of the Degrees of the Mortality of Mankind drawn from curious Tables of the Births and Funerals at the City of Breslaw, with an Attempt to ascertain the*

A

Price

Price of Annuities upon Lives. By Mr. Edmond Halley,
R. S. S.

An Account of B O O K S.

1. THE WISDOM OF GOD *manifested in the Works of the Creation: In Two Parts. The Second Edition, very much enlarged.* By John Ray, S. R. S. in 8°. 1692.

2. *Three Physico-Theological Discourses, concerning*
1. *The Primitive Chaos and Creation of the World.*
2. *The General Deluge, its Causes and Effects.* 3. *The Dissolution of the World, and future Conflagration, in*
8°. 1693. Both Printed for S. Smith.

3. *Leonardi Plukenetii Phytographia, sive stirpium illustriorum Icones. Pars Tertia. Lond. In Folio.* 1693. Printed for the Author, and Sold by S. Smith.

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3. *Three Quæries, concerning some Shells, used in Medicine, proposed by Mr. Samuel Dale, and answered by Martyn Lyster, M. D. and R. Soc. S. with a Figure of the Shell yielding the Purple of the Ancients.*
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*them. 2. A Collection of Curious Travels and Voyages, in two Tomes. The first containing Dr. Leonhart Rau-
wolff's Itinerary into the Eastern Countries, &c. The Se-
cond taking in many parts of Greece, Asia minor, Egypt,
Arabia Eœlix, and Petrea, Ethiopia, the Red Sea, &c.
from the Observations of Monsieur Belon, Vernon, Greaves,
Dr. Spon, Smith, Huntingdon, &c. Lond. Printed for
S. Smith and B. Walford, in 8°. 1693.*

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II. *An Account of certain transparent Pebbles, mostly of the Shape of the Ombriæ or Brontia. By Martin Lister, M.D. and S.R.S.*

III. *Two Letters from Mr. John Clayton Rector of Crofton at Wakefield in Yorkshire, containing many curious Remarks made by him in Virginia, and his Voyage thither.*

IV. *An Account of a Book, by* R. H. M. D. R. S. S. Archæologiæ Philoſophicæ ; ſive Doctrina antiqua de Rerum Originibus. Libri duo. Auth. Thoma Burnet. S. T. D. *Londini* Typis R. N. Impenſis G. Kettilby ad inſigne Capituli Episcopii in Cœmiterio Paulino. 1692. in 4to.

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N n Trees.

Trees. *On the Scales found on the Skin, &c.* VIII. *A Proposal concerning the Parallax of the fixt Stars in reference to the Earth's annual Orb: Being the Extracts of several Letters, dated May 2. June 29. and July 20. 1693. from the Reverend Dr. John Wallis, S. R. S. to William Molineux, Esq;* IX. *An Account of a Book, Entituled, Synopsis Methodica, Animalium Quadrupedum & Serpentine Generis, Vulgarium Notas Characteristicas, Rariorum Descriptiones integras exhibens: Cum Historiis & Observationibus Anatomicis perquam curiosis, &c.* Auctore Joanne Raio, S. R. S. in 8^o. Lond. Impensis S. Smith & B. Walford.

An ADVERTISEMENT belonging to Page 826. of this Transaction.

FIG. 4. represents one of the *Tubera Terræ* whole, the *Papillæ* and *Fibres* being observable thereon. Fig. 5. The same Truffle cut through the middle to shew the inside full of whitish Vêins.

E R R A T A.

NUMB. 198. p. 661. l. 14. for *Cartilages* r. *Tendons*. p. 670. r. *Gnaphalium*, p. 681. l. 1. r. $Q = \frac{2}{3}$. Numb. 199. p. 713. l. 23. r. *setting on of*. p. 714. l. 26. r. Fig. 14. p. 715. l. 17. r. *determine*, p. 716. l. 6. r. *Aqueus*.

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I. *THE Extract of a Letter, giving an Account of a prodigious Storm of Hail of an extraordinary bigness in Lisle, in May, 1686.* **II.** *Observatio Eclipsis Solaris Bononiæ habita die 12^o. July, Anno 1684. à Cl.V. D^{no}. Dominico Gulielmino.* **III.** *Several Observations and Experiments on the Animalcula in Pepper-Water, &c. By Sir Edm. King, M.D. and S.R.S.* **IV.** *The manner of making of Steel, and its Temper; with a Guess at the way the Ancients used to Steel their Picks, for cutting or hewing of Porphyry. By Martin Lister, M.D. and S.R.S.* **V.** *The Description of certain Shell-fish found in the East-Indies, extracted out of a Letter from Mr. Witzen to Dr. Lister, who communicated it to the Publisher, with some Notes of his own thereon.* **VI.** *A Paper of Mr. Flowers, containing some unknown ancient Characters, with Remarks thereon. By Francis Aston, Esq; S. R. S.* **VII.** *A Letter from Mr. Samuel Dale, giving a farther Account of some Coins found some time since at Honedon in Suffolk.* **VIII.** *Part of a Letter from Mr. T. M. in Salop to Mr. William Baxter, concerning the strange Effects from the eating of Dog-Mercury, with Observations thereon. By Hans Sloane, M. D. and S. R. S.* **IX.** *A Discourse concerning the Proportional Heat of the Sun in all Latitudes, with the Method of collecting the same, as it was read before the Royal Society in one of their late Meetings. By Edm. Halley* **X.** *Accounts of Books. 1. Diogenes Laërtius Græcè & Latine cum Commentariis integris Doctorum Virorum. Amstelodami, apud Hen. Wetstenium, in 4to. 1692.* **2.** *Considerations on a Book Entituled, The Theory of the*

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Earth

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- I. **A**N *Extract of a Letter from Sir Rich. Bulkley, S.R.S. to Dr. Lister, concerning the Improvement to be made by the Cultivation of Maize in Ireland; with a Remark thereon, by Mr. John Ray, S.R.S.* II. *A Letter from Mr. John Clayton, Rector of Crofton in Yorkshire; being a Continuation of his Account of Virginia, touching the Earth and Soyl thereof; with some Observations on the Planting of Tobacco, promised in Transact. Numb. 201.* III. *An Extract of a Letter from Mr. Anth. Van Leeuwenhoek, S.R.S. to the Royal Society, containing his Observations on the Seeds of Cotton, Dates, Cloves, Currants, Gooseberries, &c. the Scales of Fish, Pores of the Skin, Salts in several Liquors, &c.* IV. *An Instance of the Excellence of the Modern Algebra, in the Resolution of the Problem of finding the Foci of Optick Glasses universally, by Mr. E. Halley, S.R.S.* V. *An Abstract of part of a Letter from Mr. Samuel Dale, to Mr. John Haughton, S.R.S. concerning the making of Turnep-bread, in Essex.* VI. *An Extract of a Second Letter from Sir R. B. concerning the Propagation of Elms by the Seed.* VII. *An Account of a Book entituled, Phalæxinologia nova sive Observationes de Rarioribus quibusdam Bakenis in Scotiæ Littus nuper ejectis, &c, Auth. Roberto Sibbald. Edinburgi in 4° 1692.*

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